Marine Corps Combat Development Command

Shaping and Enabling the MAGTF of Tomorrow

Situation

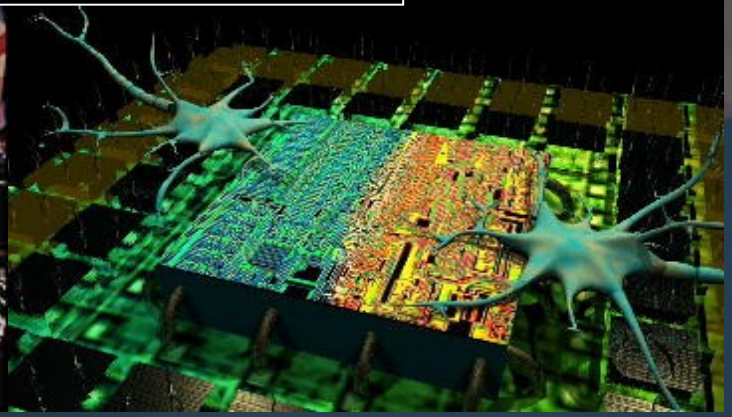
- **We are a Nation at war**
- **Number one priority is supporting our forward deployed Marines**
- **Indications this will be a multi-generational war against extremism**
- **<u>Institutional flexibility</u> in adapting to different force requirements is critical**

Threat

Irregular

Catastrophic

Hybrid Threats



Traditional

Disruptive

Primary Responsibilities

- **Commanding General, Marine Corps Combat Development Command (CG, MCCDC)**
- **Deputy Commandant, Combat Development and Integration (DC, CD&I)**
- **Commanding General, Marine Corps Installations National Capital Region (CG, MCINCR)**
- **Commander, Marine Forces Strategic Command (COMMARFORSTRAT)**
- **Command Element Advocate**

Win now… Prepare for the future

34th Commandant's Priorities

- ✓ ***Achieve victory in the Long War.***
- ✓ ***Right – size our Corps to achieve desired deployment to dwell ratio.***
- ✓ ***Provide our Nation a naval force that is fully prepared for employment as a MAGTF across the spectrum of conflict.***
- ✓ ***Reset and modernize to "be most ready when the Nation is least ready."***
- ✓ ***Improve quality of life for our Marines and our families***
- ✓ ***Rededicate ourselves to our Core Values and warrior ethos.***

MCCDC Mission

To direct the continuous adaptation of Marine forces by determining and developing wholly integrated warfighting capabilities in order to provide our Nation a Corps of Marines that is fully prepared for employment as a Marine Air-Ground Task Force across the spectrum of conflict.

Endstate: The Marine Corps remains the world's foremost expeditionary warfighting organization – interoperable with joint, coalition, and interagency partners and always most ready when the nation is least ready

DC,CD&I

- Determine and integrate warfighting capabilities
- Produce solutions for capability gaps
- Assist MAGTF Cmdr's in meeting future challenges
- Assess strategic landscape
- Translate vision into capability
- Integrate processes to organize, train and equip
- Joint integrator for combat development

CG MCINCR

- **Implements policies, develops regional strategies and plans, prioritizes resources and provisions of services.**
- **Provides direction and oversight through designated Marine Corps installations to support the Operating Forces, tenant commands and activities in the NCR.**
- **Commanding Officer, MCB Quantico serves as deputy for operations and AT/FP for Marines within NCR**

COMMARFORSTRAT

- Service component to USSTRATCOM
- Ensure appropriate and responsive support to the "Global Integ
  - Global strike, space operations computer network ops/defens
  - DoD IO
  - Missile defense
  - Global C4ISR
  - Combating WMD
  - Specialized support as require

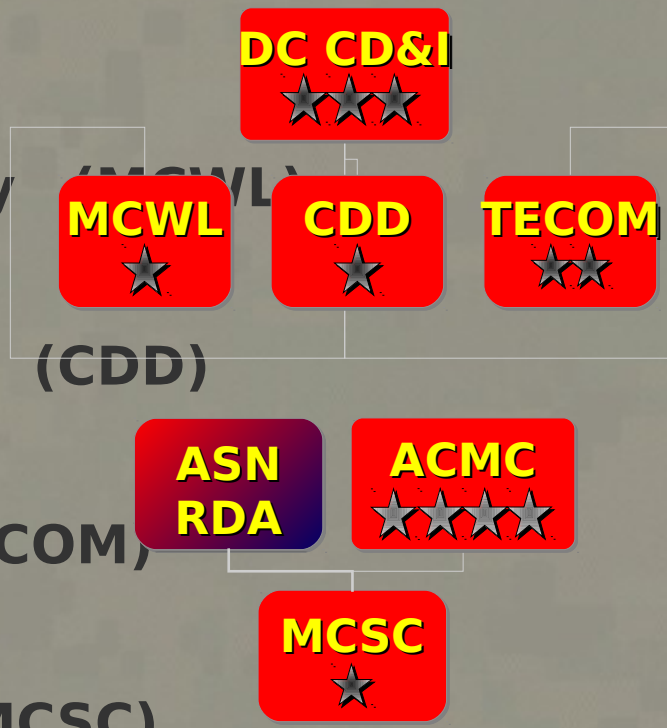
Endstate: to ensure full USMC collaboration is maintained and sustained with the five joint functional component commands and three functional components responsible to USSTRATCOM's primary mission areas

Command Element Advocate

- As the integrator for the Marine Corps, DC CDI is responsible to CMC for ensuring that all MAGTF capabilities are synchronized and coordinated:
  - Responsible for the developme and continuous adaptation of capabilities needed by the MAGTF Cmdr
  - To support the MAGTF Cmdr in ensuring the force is working towards one unified goal

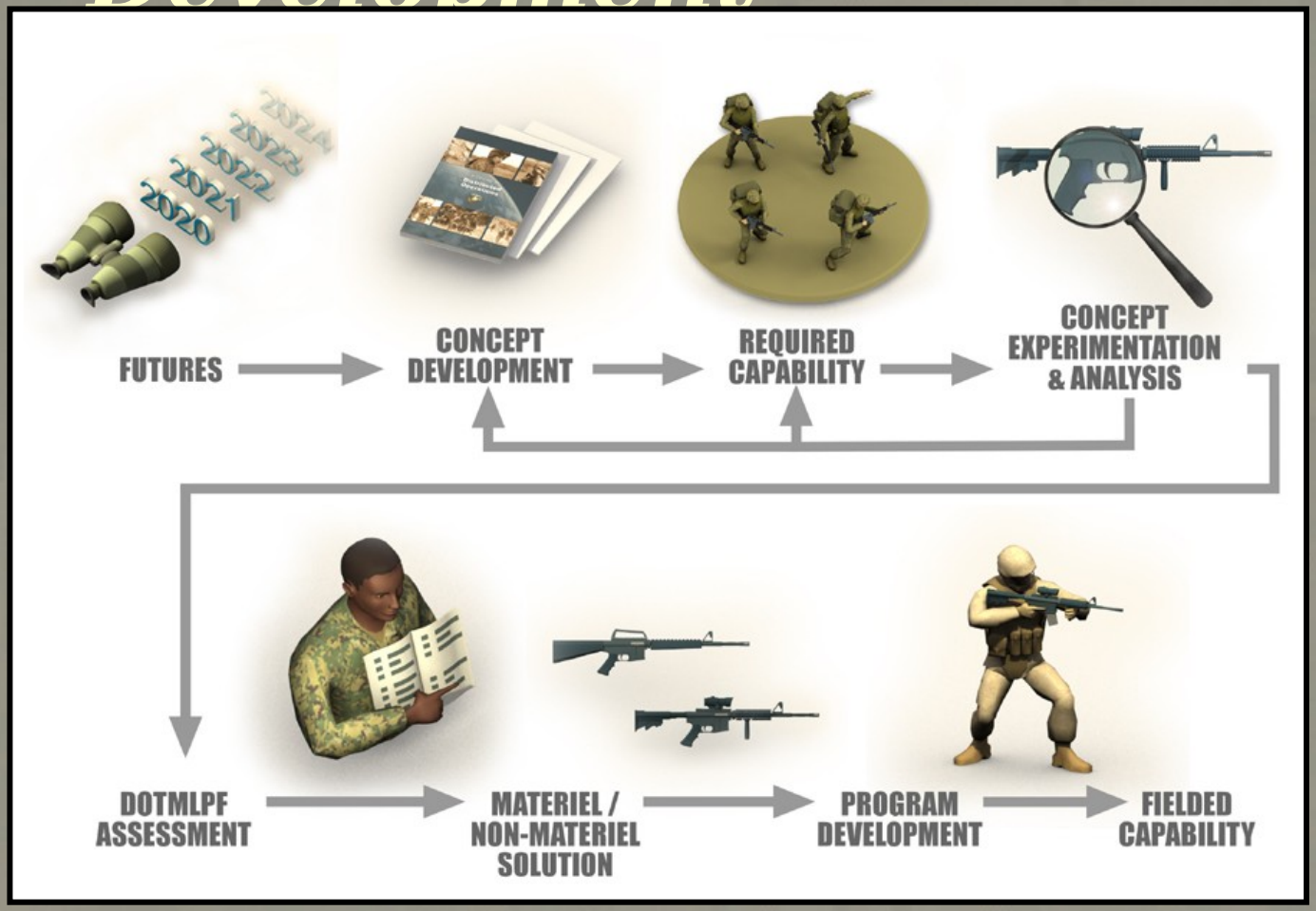
Concepts to Capabilities

- **Deputy CMC for Combat Development & Integration (DC CD&I)**
  - Shape Marines & MAGTFs
- **Marine Corps Warfighting Laboratory (MCWL)**
  - Imagine & Identify Capabilities
- **Capability Development Directorate (CDD)**
  - Integrate & Organize Solutions
- **Training & Education Command (TECOM)**
  - Train & Teach Leaders
- **Marine Corps Systems Command (MCSC)**



e Marine Corps of Next Week, Next Year, Next Decade

Expeditionary Force Development



Ensure the Marine Corps is organized, equipped and trained to successfully meet the challenges of the changing security environment.

MCCDC Major Lines of Operation

Insight to Innovation

Ideas to Execution

D	**Doctrine**
O	**Operations**
T	**Training**
M	**Materiel**
L	**Leadership**
P	**Personnel**
F	**Facilities**

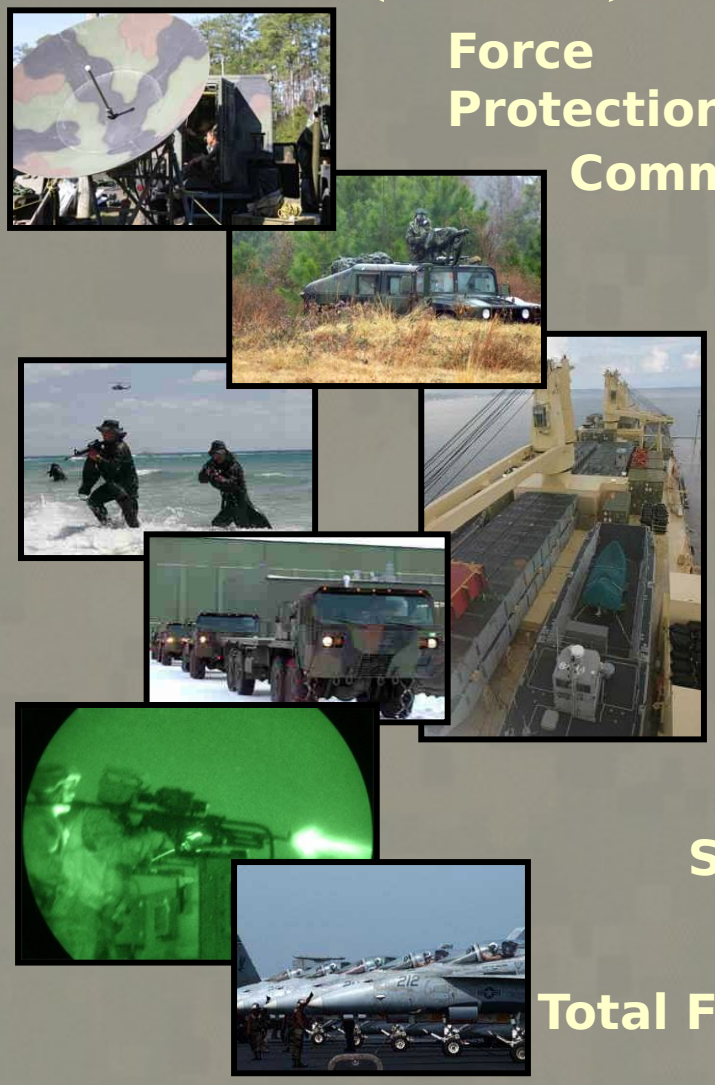
Semper Progredi

UNCLASSIFIED

CD&I ...Forging the Future

Capabilities Development Directorate (CDD)

- The Capabilities Development Directorate (CDD) is the custodian of the Expeditionary Force Development System.
- CDD coordinates with Marine Corps advocates, proponents, MARFORs and the supporting establishment.
- CDD ensures that the fielding of all warfighting capabilities are integrated across the spectrum of doctrine, organization, training, materiel, leadership and education, personnel, and facilities (DOTMLPF)



Force Protection

Command & Control

Intelligence Integrati

MAGTF Integration

Logistics

Fires & Maneuver

Seabasing

Total Force Structure

Marine Corps Warfighting Lab

Supporting the current fight while…

Threats/Opportunities

Wargaming

Future Technology

Live-Force Experimentation

Current Technology Experimentation

Counter-IED

Shaping the future Marine Corps

Marine Corps Warfighting Lab

The Warfighting Lab conducts concept-based experimentation to evaluate tactics, techniques, procedures, and technologies in order to enhance Marine Corps warfighting capabilities.

Also serves as access point for larger S&T communities such as ONR and DARPA

Training and Education Command

Marine formal schools and Marine Corps University programs

Marine Corps Recruit Depots & OCS / TBS officer training schools

Develop, coordinate, resource, execute, and evaluate training and education concepts, policies, plans, and programs to ensure Marines are prepared to meet the challenges of present and future operational environments.

Military Occupation Specialty training

Career-long professional military education

Training and Education Command

Center for Advanced Operational and Cultural Learning (CAOCL)

Center for Irregular Warfare

Security Cooperation Education Training Center

Training & Education Command

Every Marine a Rifleman and an Intelligence Collector

No Better Friend

No Worse Enemy

- **Mojave Viper**
- **Desert Talon**
- **Amphibious Training**
- **CAX "Next"**
- **Language**
- **Culture**
- **Combined Arms**

Educating and training the world's foremost warfighting organization

HQ CD&I : G3 / G5

OPERATIONS BRANCH

PLANS BRANCH

WARGAMES

CONFERENCES

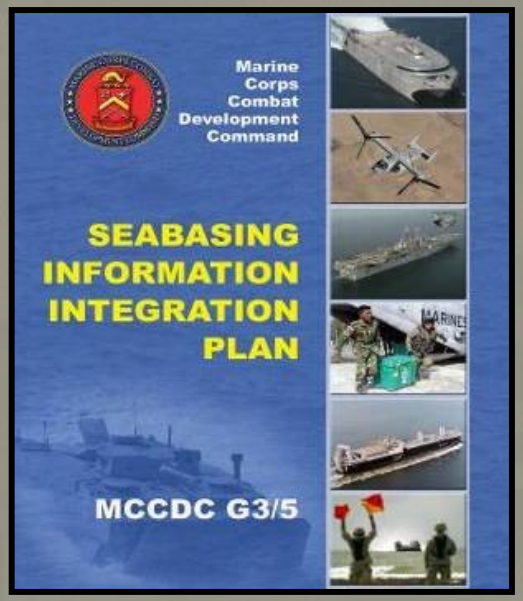
CONCEPTS

MARFORS

HQ CD&I : G3 / G5

LEGISLATIVE AFFAIRS

STRATEGIC COMMS



INPUT FOR JOINT & SERVICE CONCEPTS

Strategic Vision Group (SVG)

The SVG assists CMC in posturing the Marine Corps for success in the future by assessing:

- Strategic Security Environments
- Emerging Operational Threats & Challenges
- USMC Philosophy and Principles
  - Institutional Values
  - Warfighting Philosophy
  - Enduring Principles
  - Core Competencies
- CMC Vision 2025
- Capstone Operational Concept
- Desired Capabilities/Capacities
- Institutional Objectives

Operations Analysis Division

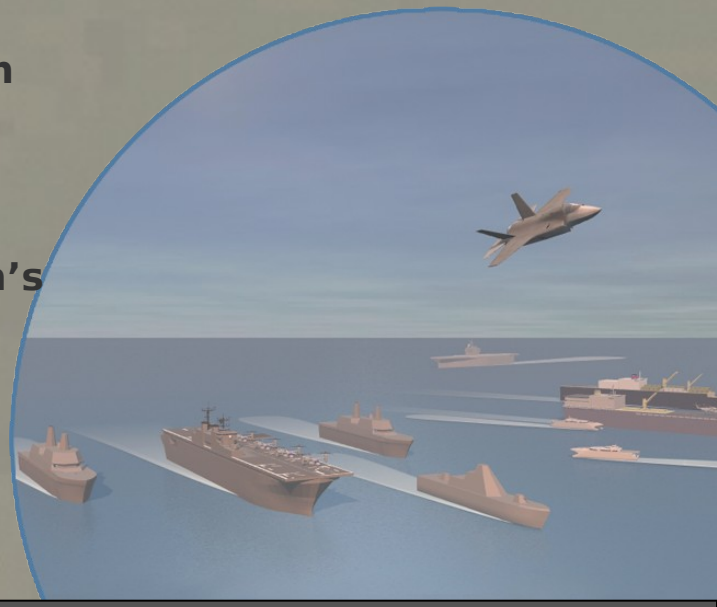
OAD provides oversight and coordination for the Marine Corps on all matters pertaining to *studies and operations analysis*, assists the Marine operating forces and other Marine Corps agencies with operations analysis support, and conducts a continuing program of studies and analyses to assist the Marine Corps in making combat development, programmatic (Joint, Naval, and Marine Corps), and warfighting decisions.

AREAS OF EMPHASIS

- Maneuver and Fires
- Sea Basing
- ISR and Fires
- Assault From the Sea
- Assault Aviation Mix
- USMC Role in Joint Theater-level Warfare
- Infantry-centric Operations (DO, equipment, C2, training, MOUT, SASO, required special skills)
- High-speed Connectors and Shipping, Strategic Mobility
- USMC's Structure relative to its World-wide Commitments

Maritime Strategy

- There is a global system critical to the prosperity of the American people and the greater global community.
  - **The system is subject to a spectrum of disruption from major war to natural disasters**
- Maritime forces:
  - **Play a unique and critical role in preventing and mitigating disruptive shocks to the new global system**
  - **Foster relationships that help build confidence in that new system**
  - **Enforce Rule of Law for the Oceans**
  - **Provide layered defense of the homeland**
  - **Provide credible combat power to win our nation's wars**



Implications for Deployments, Force Posture, Ops Planning

Expeditionary Ship Requirements

- **Timely and effective development of Expeditionary Ship Requirements is critical to the Corps' ability to provide the Nation a relevant amphibious and maritime prepositioning force in readiness.**

- **Two MEB operational requirement is 34 available amphibious ships**

- **Fiscally constrained requirement is 30 <u>available</u> amphibious ships which would require 33 ships (11/11/11)**

UNCLASSIFIED

C2 Harmonization

- **Synchronization of Joint, Naval and Marine Corps C2 concepts, policies, doctrine, training and education, organization, personnel, systems, and facilities**
- **End to end, fully integrated, cross functional, reach back as well as deployed set of C2, communications and networking capabilities to the warfighter**
- **MAGTF C2 Transition Task Force and integration of 50+ programs into a single USMC C2 Portfolio**

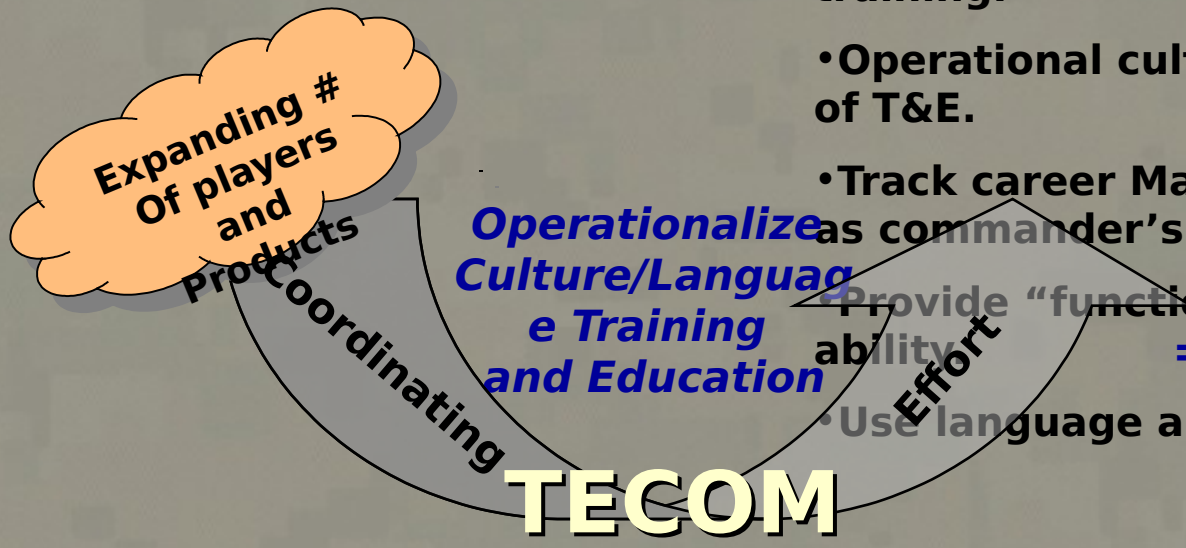
- ***Endstate***
  - ***A <u>strategy</u> to harmonize all aspects of C2***
  - ***A <u>process</u> to provide governance over the C2 community***
  - ***A <u>system</u> that will provide common, modular, and scalable material solutions across the MAGTF at all echelons***

Center for Irregular Warfare

- The central Marine Corps agency for identifying, coordinating, and implementing irregular warfare capability development initiatives across all elements of DOTMLPF in order to increase, improve, and enhance Marine Corps capabilities and capacities to conduct operations across the spectrum of war against irregular th

Center for Advanced Operational Cultural Learning

- Understand cultural terrain's effect on operations.
- Ensure planning includes cultural considerations.
- Ensure Marines consider indigenous view.
- "One-Stop" operational culture/language training.
- Operational culture training in every level of T&E.
- Track career Marines' regional knowledge as commander's resource.
- Provide "function-focused" language ability.
- Use language aids and technology.



= Center for Advanced Operational Culture Learning

Prepare Marines to Successfully "Navigate the Cultural / Human Terrain"

UNCLA

Marine Corps Base Quantico

Marine Corps Systems Command

Heritage Center

Manpower and Reserve Affairs

Marine Corps Recruiting Command

MCB Quantico

Marine Security Guard Battalion

Marine Helicopter Squadron One

FBI Academy

Joint Non-Lethal

Marine Corps Association

World-class Marine Corps University

- **Serves to enhance the warfighting proficiency and capability of Officer and Enlisted leaders**
- **Educate core competencies:**
  - **Combined arms**
  - **MAGTF doctrine and concep**
  - **Amphibious operations**
- **Advocate Marine Corps PME**
  - **Develop, deliver and evalua**
  - **Resident and non-resident PME**
- **World class facilities, students, curriculum, and faculty**

"We have been successful in educating today's warriors but it is evident that we must and will develop and aggressive plan and commit the resources to achieve and sustain world class status" Gen Alfred Gray, 29th CMC

202K Balanced Capability Growth

Quantico
"Forging the Future"

- Intellectual, conceptual, historical, training "heart" of the Corps

HQMC "South"

Quantico National Cemetery

S Fraley Blvd

Triangle

Russell Rd

PX
Commissary

Quantico

TECOM

HQ, CD&I

Marine Corps
Warfighting Lab

Easy Access

TBS/WTBN
FBI/DEA

Quantico Marine Corps Base

Garrisonville

Aquia

Stafford

Charles

Great:
- Hunting
- Fishing
- Camping
- Swimming
- Boating
- Running
- Stables

Relevant Work, Excellent Quality of Life

Back Up

Focus on the Marine

Ground Mobility: A Balancing Act

- **Forcible Entry: Maintain 2 MEB capability**
  - Expeditionary Fighting Vehicle (EFV)
  - Program of Record = $10.24B
- **Irregular Warfare: Capability alternatives**
  - Mine Resistant Ambush Protected Vehicle (MRAP)
  - Joint Lightweight Tactical Vehicle (JLTV)
  - Ind[illegible]y Tr[illegible]hicle (I[illegible]
  - Light Armor[illegible]ntry Ca[illegible] MIC)

EFV

JLTV

MRAP: Cat I, II, III

ITV

LA MIC

"The Marine Corps will consider capability alternatives … support a single two MEB forcible entry operation. Additionally … propose an appropriate mix of ground combat vehicles to support irregular warfare operations. - Strategic Planning Guidance

MRAP Vehicles

MRAP CAT I

- Cougar 4x4
- Mine Resistant Utility Vehicle (MRUV)
- Urban Combat Operations
- 4x4
- 6 pax
- Curb Wt: 30,000 lbs
- Cmbt Wt: 38,000 lbs
- Payload: 6,000 lb
- $665,987 per units

MRAP CAT II

- JERRV/Cougar
- Multi-mission (convoy escort, troop transport, ambulance, EOD, Cmbt Engr)
- 4x4 and 6x6 variants
- 10 pax
- Curb Wt: 30,000 lbs (4x4) 38,000 lbs (6x6)
- Cmbt Wt: 38,000 lbs (4x4) 52,000 lbs (6x6)
- Payload: 6,000 lbs (4x4) 14,000 lbs (6x6)
- $785,193 per unit

MRAP CAT III

- Buffalo
- Mine/IED Clearance Operations
- 6x6
- 6+ pax
- Curb Wt: 45,000 lbs
- Cmbt Wt: 80,000 lbs
- Payload: 38,000 lbs
- $962,654 per unit

*CAT I and Cat II TBD (Source Selection/Testing/User Evaluation

MRAP

- Continued media and Congressional attention
- In 2005, M1114 UAH considered ‘gold standard
- February 2007:
  - 3,700 MRAP requirement
- MRAP meets current threat, however UUNS already submitted for additional armor